

Berkeley. June 18. 1883.

My Dear Dr. Gray:-

The letter which was held for postage two weeks in Boston, arrived yesterday. I now send, in a registered parcel, specimens of Loximon which will, I trust, be found instructive.

J. grandiflorum, Gray &  
J. laciniatum, Greene you will see differ, first, very widely in the character of the pubescence, as well as in form of foliage. The akenes in the former are all alike. In the latter those of the outer row are different from the rest, being more conspicuously ribbed, & of a different color. The style is always a third shorter, also in this species, & the pappus dingy.



A very striking distinction  
is given, chiefly in the living  
plant, i.e. the length and  
expansion of the ligules.

In G. grandiflorum they  
are very short, & hardly exerted  
beyond the involucre, so  
that the full flower head is  
hardly an inch across; but  
in G. lucicola the same  
is 2 - 2½ inches in diameter.  
Lastly, the latter (altho' the  
two grow always together)  
begins to flower three or  
four weeks later.

Lobelia Chilense, Gray  
Wiel; this is a hard case!

I wonder not a little at the  
disposal made by Benth & Hook  
and yourself of these plants.



Still, though half the time it  
seems to me that we have  
(Chilian ones included)  
here, at least a half dozen  
good species (the akenes are  
so very different, & they do not  
run together) yet I dare  
not say so in print.

But Nuttall's Cryptopleura &  
Kymapleura must, at the  
very least have names as  
varieties; and there, you see  
I find another quite as  
remarkable one, having its  
outer akenes very pubescent,  
but neither inflated, nor  
much winged. Even that  
Californian form in which  
the akenes are all white,  
is distinguished from all  
Chilian forms, by having its  
akenes only half as large, &  
of different shape.



I think you will not dissent from my view that we must name all these, at least as varieties; & that Nuttall's one would be sinned against if we did not preserve his names *Rymaphysa* & *Cryptopleura*.

That clover of the salt marsh is no new thing to me. I saw it about Valli's years ago; saw it there this year, & now, at last, I collect & examine it to find it undescribed; & very peculiar too.

My anomalous *Madia citriodora* of Yuba, 1876. Comes in this year from the Sacramento country, & with it another equally anomalous new species. The collector did not distinguish the two.



Greene, Edward Lee. 1883. "Greene, Edward L. June 15, 1883." *Edward Lee Greene letters to Asa Gray*

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